



RETIREE HEALTHCARE PLAN

June 30, 2015 GASB 45 Actuarial Valuation

Doug Pryor, Vice President & Actuary

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June 8, 2016

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BENEFIT SUMMARY

■ Eligibility	■ Retire directly from District under CalPERS (10+ years of continuous District service for dental)						
■ Medical Benefit	■ District pays premium up to cap (middle cost pre-Medicare Bay Area plan):						
		2014	2015	2016			
	Plan	Plan PERSCare PERSCare Health Net SmartCare					
	Employee	\$ 720.04	\$ 775.08	\$ 808.44			
	2-Party	1,440.08	1,550.16	1,616.88			
■ Dental Benefit	 2-Party dental coverage up to cap until age 65 Cap: \$2,000 per individual covered up to total of \$4,000 						
■ Surviving Spouse	■ 100% of retiree benefit continues to surviving spouse if retiree elects CalPERS survivor allowance						
■ Other OPEB	■ The District does not provide Medicare Part B Reimbursement, Non-PEMHCA Premium, Vision, and Life						





BENEFIT SUMMARY

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■ Pay-As-You-Go	Fiscal Year	Amount	
	2014/15	\$ 1,961,500	
	2013/14	1,972,800	
	2012/13	1,901,800	
	2011/12	$1,728,500^{1}$	
	2010/11	1,564,2001	
	2009/10	$1,379,700^2$	
	2008/09	1,419,400	
	2007/08	1,355,900	

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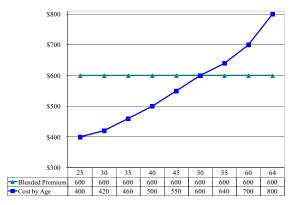




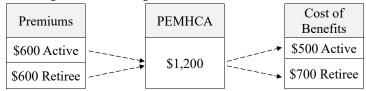
^{2010/11 &}amp; 2011/12 pay-as-you-go cost calculated based on contribution to trust assuming full ADC funding Reflects CalPERS 2 month PPO premium holiday

IMPLIED SUBSIDY

- PEMHCA, employer cost for allowing retirees to participate at active rates.
 - General trend:



• Sample active age 40, retire age 60:







IMPLIED SUBSIDY

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Implied Subsidy

- GASB 45 defers to actuarial standards of practice.
- Previous Actuarial Standards of Practice No. 6³ (ASOP 6) allows community rated plans to value liability using premiums, resulting in no implied subsidy.
- In May 2014, Actuarial Standards Board released revised ASOP 6:
 - Requires implied subsidy valued for community rated plans such as PEMHCA.
 - Timing: effective with all valuations on or after March 31, 2015 with earlier implementation encouraged
- June 30, 2013 and June 30, 2015 valuations include the implied subsidy.

³ Measuring Retiree Group Benefits Obligations and Determining Retiree Group Benefits Plan Costs or Contributions.



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PARTICIPANT STATISTICS

Actives

	1/1/07	1/1/09	6/30/10	6/30/12	6/30/134	6/30/15
■ Count	255	253	254	225	225	236
■ Average:						
• Age	46.7	46.9	47.7	47.6	48.6	46.7
• Service	11.1	11.5	12.4	12.8	13.8	12.2
• CalPERS Service	11.8	12.3	13.2	13.5	14.5	13.1
• Pay	\$ 70,500	\$ 81,300	\$ 85,800	\$ 87,100	\$ 89,900	\$ 91,100
■ Total Payroll (000s)	17,967	20,581	21,789	19,600	20,234	21,494

 $^{^4}$ 6/30/2012 data used for 6/30/13 valuation. Pay increased with 3.25% aggregate pay increase assumption.



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PARTICIPANT STATISTICS

Retirees

	1/1/07	1/1/09	6/30/10	6/30/12	$6/30/13^5$	6/30/15
■ Count						
 Benefitting 						
> < 65	69	64	65	79	59	70
> ≥ 65	93	<u>105</u>	<u>110</u>	<u>124</u>	<u>144</u>	<u>151</u>
> Subtotal	162	169	175	203	203	221
 Not benefitting 	<u>17</u>	<u>27</u>	<u>11</u>	<u>15</u>	<u>15</u>	$\frac{18}{239}$
• Total	179	196	186	218	218	239
■ Average						
• Age	67.6	69.1	70.0	69.9	70.9	70.8
• Retirement Age						
> Service retired	58.3	58.0	58.1	58.3	58.3	58.4
Disabled retired	46.3	47.0	45.8	45.7	45.7	45.2

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 $[\]frac{}{}^{5}$ 6/30/2012 data used for 6/30/13 valuation.





ACTUARIAL ASSUMPTIONS HIGHLIGHTS

	June 30, 2013 Valuation	June 30, 2015 Valuation
■ Valuation Date	 June 30, 2013 2015/16 and 2016/17 GASB 45 and Funding 	■ June 30, 2015 ■ 2017/18 and 2018/19 ■ Funding only
■ Funding Policy	■ Contribute full ARC (net of pay-go) to CERBT	■ Same
■ Discount Rate	■ 7.25% pre-funded with CalPERS CERBT fund #1	■ Same
■ Medical Cap Increase	■ Non-Medicare Healthcare trend	■ Same
■ Mortality, Withdrawal, Disability	 CalPERS 1997-2011 Experience Study Fully-generational Scale AA mortality improvement applied to post-retirement mortality 	 CalPERS 1997-2011 Experience Study Fully generational with Scale MP-2014 modified to converge to ultimate improvement rates in 2022 for pre and post-retirement mortality





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ACTUARIAL ASSUMPTIONS HIGHLIGHTS

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	June	e 30, 2013 V	aluation	June	e 30, 2015 V	aluation
■ ACA Excise Tax	■ n/a			■ 2% load on cash subsidy		
Load						
■ Healthcare Trend	I	ncrease from	n Prior Year	I	ncrease fron	n Prior Year
	Year 1	Non-Medicar	e Medicare	Year 1	Non-Medicai	e Medicare
	2013	Actual Pr	emiums	2013	n/s	a
	2014	Actual Pr	emiums	2014	n/s	a
	2015	Actual Pr	emiums	2015	Actual Pr	emiums
	2016	7.5%	7.8%	2016	Actual Pr	emiums
	2017	7.0%	7.2%	2017	7.0%	7.2%
	2018	6.5%	6.7%	2018	6.5%	6.7%
	2019	6.0%	6.1%	2019	6.0%	6.1%
	2020	5.5%	5.6%	2020	5.5%	5.6%
	2021+	5.0%	5.0%	2021+	5.0%	5.0%





ASSETS

Market Value of Plan Assets (Amounts in 000's)

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	All
■ MVA (Beginning of Year)	\$ -	\$2,317	\$5,068	\$7,849	\$9,270	\$12,478	\$17,075	\$ -
Employer Contribution	2,200	2,521	1,503	1,419	2,169	2,184	1,856	13,851
• Benefit Payments	-	-	-	-	-	-	-	-
 Administrative Expenses 	(0)	(3)	(8)	(9)	(15)	(20)	(18)	(73)
• Investment Return	117	233	1,286	12	1,054	2,433	2	5,137
■ MVA (End of Year)	2,317	5,068	7,849	9,270	12,478	17,075	18,914	18,914
■ Approximate Annual Return	n/a	8.8%	25.2%	0.0%	11.3%	18.2%	(0.1)%	10.5%6

⁶ Arithmetic average of 09/10 to 14/15 returns.



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ASSETS

Actuarial Value of Plan Assets (Amounts in 000's)

	08/09	09/10	10/11	11/12	12/13	13/14	14/15
■ AVA (Beginning of Year)	\$ -	\$ 2,229	3 4,725	\$ 7,006	\$ 9,028	\$11,983	\$15,486
Employer Contribution	2,200	2,521	1,503	1,419	2,169	2,184	1,856
 Benefit Payments 	-	-	-	-	-	-	-
Credited Return	29	176	577	604	786	1,320	1,244
■ AVA (End of Year)	2,229	4,725	7,006	9,028	11,983	15,486	18,586
■ Approximate Annual Return	n/a	7.9%	12.2%	8.6%	8.6%	10.4%	7.8%

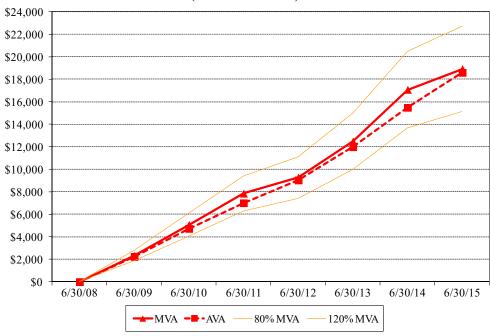




ASSETS

Historical Value of Plan Assets

(Amounts in 000's)



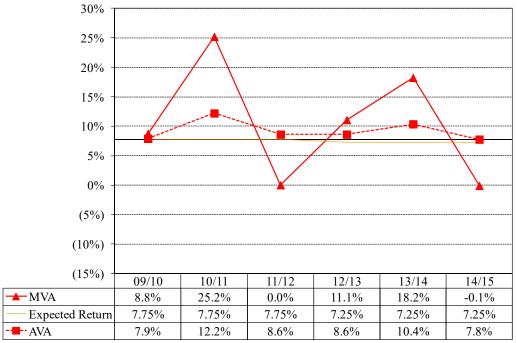




ASSETS

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Historical Annualized Asset Returns







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Actuarial Obligations (Amounts in 000's)

	6/30/13	6/30/15
	Valuation	Valuation
■ Present Value of Benefits		
• Actives	\$ 30,779	\$ 34,223
• Retirees	23,472	<u>29,342</u>
• Total	54,251	63,565
■ Actuarial Accrued Liability		
• Actives	21,615	23,233
• Retirees	23,472	<u>29,342</u>
• Total	45,087	52,575
■ Actuarial Value of Assets	11,983	<u>18,586</u>
■ Unfunded Liability	33,104	33,989
■ Normal Cost	1,400	1,647
■ Pay-As-You-Go Cost	2,555	3,177



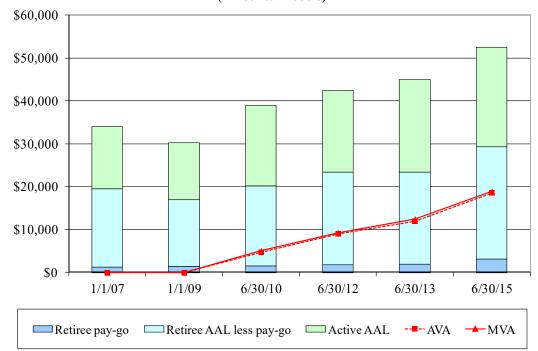


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Historical Funded Status

(Amounts in 000's)



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Actuarial (Gain)/Loss Analysis (Amounts in 000's)

	AAL
■ 6/30/13 Actual	\$ 45,087
■ 6/30/15 Expected	50,041
■ Change	
 Mortality improvement 	1,634
• Excise tax	871
 Premiums less than expected 	(2,310)
 Implied Subsidy adjustment 	2,420
• Other	(80)
■ Total Change	2,534
■ 6/30/15 Actual	52,575



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Schedule of Funding Progress (Amounts in 000's)

Actuarial Valuation Date	Actuarial Value of Assets (a)	Entry Age Actuarial Accrued Liability (b)	Unfunded Actuarial Accrued Liability (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as Percentage of Covered Payroll ((b-a)/c)
6/30/2012	9,028	42,419	33,391	21.3%	21,231	157%
6/30/2013	11,983	45,087	33,104	26.6%	21,921	151%
6/30/2015	18,586	52,575	33,989	35.4%	23,659	144%





Actuarially Determined Contribution (ADC) (Amounts in 000's)

		6/30/13 Valuation		0/15 ation
	2015/16	2016/17	2017/18	2018/19
■ ADC - \$				
Normal Cost	\$ 1,400	\$ 1,445	\$ 1,647	\$ 1,701
UAAL Amortization	<u>2,283</u>	<u>2,357</u>	<u>2,599</u>	<u>2,683</u>
• Total ADC	3,683	3,803	4,246	4,384
■ Projected Payroll	21,921	22,634	23,659	24,427
■ ADC - % of Payroll				
Normal Cost	6.4%	6.4%	7.0%	7.0%
UAAL Amortization	10.4%	<u>10.4%</u>	<u>11.0%</u>	<u>11.0%</u>
• Total ADC	16.8%	16.8%	17.9%	17.9%



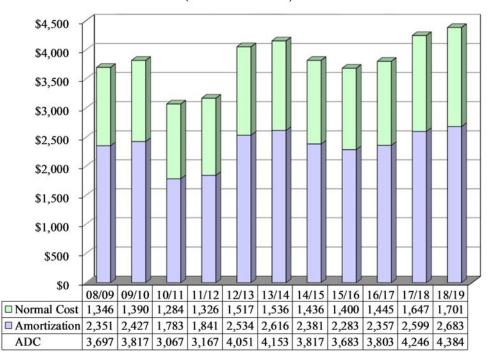


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Actuarially Determined Contributions

(Amounts in 000's)







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Amortization Bases (Amounts in 000's)

		/2013 ation	6/30/2015 Valuation		
	6/30/15	6/30/16	6/30/17	6/30/18	
■ Outstanding Balance					
Initial UAAL	\$ 30,166	\$ 30,087	\$ 29,928	\$ 29,682	
• (Gain)/Loss					
<i>></i> 6/30/10	6,385	6,368	6,335	6,283	
<i>></i> 6/30/12	(3,829)	(3,819)	(3,798)	(3,767)	
<i>></i> 6/30/13	(1,251)	(1,248)	(1,241)	(1,231)	
<i>></i> 6/30/15	-	-	2,955	2,930	
• Contributions > ADC			(842)	(837)	
• Total	31,472	31,389	33,336	33,060	



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RESULTS

Amortization Payments (Amounts in 000's)

		/2013 nation	6/30/2015 Valuation		
	2015/16	2016/17	2017/18	2018/19	
■ Amortization Payment - \$					
Initial UAAL	\$ 2,188	\$ 2,260	\$ 2,333	\$ 2,409	
• (Gain)/Loss					
<i>></i> 6/30/10	463	478	494	510	
» 6/30/12	(278)	(287)	(296)	(306)	
<i>></i> 6/30/13	(91)	(94)	(97)	(100)	
» 6/30/15	-	-	230	238	
• Contributions > ADC			(66)	(68)	
• Total	2,283	2,357	2,599	2,683	
■ Average Amortization Years	20 19		18	17	





Net OPEB Obligation (NOO) (Amounts in 000's)

	CA	FR	Estimated		
	2013/14	2014/15	2015/16	2016/17	
■ NOO (beginning of year)	\$ -	\$ -	\$ -	\$ (361)	
■ Annual OPEB Cost					
 Annual Required Contribution 	4,153	3,817	3,683	3,803	
• Interest on NOO	-	-	-	(26)	
 Amortization of NOO 		<u>-</u>	-		
 Annual OPEB Cost 	4,153	3,817	3,683	3,777	
■ Contributions					
• Benefit Payments ⁷					
> Cash	1,969	1,962	2,177	2,436	
Implied Subsidy	-	-	392	421	
• Trust Pre-Funding	2,184	<u>1,856</u>	<u>1,475</u>	<u>1,400</u>	
 Total Contributions 	4,153	3,817	4,044	4,257	
■ NOO (end of year)	-	_	(361)	(841)	

Estimated benefit payments used for 2015/16+. Actual benefit payments should be used to calculate actual NOO.



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10-Year Projection Illustration (Amounts in 000's)

			Contr				
Fiscal Year	ADC	Cash BP	Implied Subsidy BP	Pre- Fund	Total Contrib	Total Agency Payroll	Contr % of Total Pay
2017/18	\$ 4,246	\$ 2,693	\$ 485	\$ 1,069	\$ 4,246	\$ 23,659	17.9%
2018/19	4,384	2,982	578	823	4,384	24,427	17.9%
2019/20	4,526	3,235	649	642	4,526	25,221	17.9%
2020/21	4,673	3,451	703	519	4,673	26,041	17.9%
2021/22	4,824	3,608	691	525	4,824	26,887	17.9%
2022/23	4,981	3,754	684	544	4,981	27,761	17.9%
2023/24	5,142	3,940	696	506	5,142	28,663	17.9%
2024/25	5,309	4,121	709	479	5,309	29,595	17.9%
2025/26	5,481	4,290	726	465	5,481	30,557	17.9%
2026/27	5,659	4,468	768	423	5,659	31,550	17.9%





Cash & Implied Subsidy (Amounts in 000's)

	Cash	Implied	
	Subsidy	Subsidy	Total
■ Actuarial Accrued Liability			
• Actives	\$ 19,482	\$ 3,751	\$ 23,233
• Retirees	26,226	3,116	<u>29,342</u>
• Total	45,708	6,867	52,575
■ Actuarial Value of Assets ⁸	<u>16,158</u>	<u>2,428</u>	<u>18,586</u>
■ Unfunded Actuarial Accrued Liability	29,550	4,439	33,989
■ 2017/18 ADC - \$			
Normal Cost	1,392	255	\$1,647
UAAL Amortization	<u>2,260</u>	<u>339</u>	<u>2,599</u>
• Total	3,652	594	4,246
■ Pay-Go	<u>2,693</u>	<u>485</u>	<u>3,177</u>
■ ADC less Pay-Go	959	109	1,068

For illustrative purposes, assets allocated on Actuarial Accrued Liability.



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RESULTS

2017/18 Medical Benefit Implied Subsidy Transfer Illustration (Amounts in 000's)

Before Implied Subsidy	Actives	Retirees	Total
■ Total Premium	4,357	3,459	\$7,816
■ Participant Contributions ⁹		<u>(766)</u>	(766)
■ District Contributions	4,357	2,693	7,050

After Implied Subsidy	Actives	Retirees	Total
■ Total Premium	4,357	3,459	\$7,816
■ Participant Contributions	-	(766)	(766)
■ Implied Subsidy Transfer	(485)	485	
■ District Contributions	3,872	3,178	7,050

For illustrative purposes, assumes District pays full active premium of \$4,357.



ACTUARIAL CERTIFICATION

This report presents the Marin Municipal Water District Retiree Healthcare Plan ("Plan") June 30, 2015 actuarial valuation. The purpose of this valuation is to:

- Determine the Governmental Accounting Standards Board Statement Nos. 43 and 45 June 30, 2015 Benefit Obligations,
- Determine the Plan's June 30, 2015 Funded Status, and
- Calculate the 2017/18 and 2018/19 Actuarially Determined Contributions.

The report provides information intended for reporting under GASB 43 and 45, but may not be appropriate for other purposes. Information provided in this report may be useful to the District for the Plan's financial management. Future valuations may differ significantly if the Plan's experience differs from our assumptions or if there are changes in Plan design, actuarial methods, or actuarial assumptions. The project scope did not include an analysis of this potential variation.

The valuation is based on Plan provisions, participant data, and asset information provided by the District as summarized in this report, which we relied on and did not audit. We reviewed the participant data for reasonableness.

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. Additionally, in our opinion, actuarial methods and assumptions comply with GASB 43 and 45. As members of the American Academy of Actuaries meeting the Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

Doug Pryor, ASA, EA, MAAA Vice President

Bartel Associates, LLC June 8, 2016

Kathorine Moore

June 8, 2016

Katherine Moore, ASA, MAAA Associate Actuary Bartel Associates, LLC

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ACTUARIAL CERTIFICATION

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PREMIUMS

2015 PEMHCA Monthly Premiums Bay Area

	Non-Medicare Eligible			e Medicare Eligible		
Plan	Single	2-Party	Family	Single	2-Party	Family
Anthem Select	\$662.41	\$1,324.82	\$1,722.27	\$445.38	\$890.76	\$1,336.14
Anthem Traditional	827.57	1,655.14	2,151.68	445.38	890.76	1,336.14
Blue Shield Access+	928.87	1,857.74	2,415.06	352.63	705.26	1,057.89
Blue Shield NetValue	870.60	1,741.20	2,263.56	352.63	705.26	1,057.89
Kaiser	714.45	1,428.90	1,857.57	295.51	591.02	886.53
UnitedHealthcare	850.67	1,701.34	2,211.74	267.41	534.82	802.23
PERS Choice	700.84	1,401.68	1,822.18	339.47	678.94	1,018.41
PERS Select	690.43	1,380.86	1,795.12	339.47	678.94	1,018.41
PERSCare	775.08	1,550.16	2,015.21	368.76	737.52	1,106.28
PORAC	675.00	1,292.00	1,642.00	402.00	802.00	1,281.00



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PREMIUMS

2016 PEMHCA Monthly Premiums Bay Area

	Non-Medicare Eligible			Me	dicare Eli	gible
Plan	Single	2-Party	Family	Single	2-Party	Family
Anthem Select	\$ 721.79	\$1,443.58	\$1,876.65	n/a	n/a	n/a
Anthem Traditional	855.42	1,710.84	2,224.09	n/a	n/a	n/a
Blue Shield	1,016.18	2,032.36	2,642.07	n/a	n/a	n/a
Blue Shield NetValue	1,033.86	2,067.72	2,688.04	n/a	n/a	n/a
Health Net SmartCare	808.44	1,616.88	2,101.94	n/a	n/a	n/a
Kaiser	746.47	1,492.94	1,940.82	\$297.23	\$594.46	\$891.69
UnitedHealthcare	955.44	1,910.88	2,484.14	320.98	641.96	962.94
PERS Choice	798.36	1,596.72	2,075.74	366.38	732.76	1,099.14
PERS Select	730.07	1,460.14	1,898.18	366.38	732.76	1,099.14
PERSCare	889.27	1,778.54	2,312.10	408.04	816.08	1,224.12
PORAC	699.00	1,399.00	1,789.00	442.00	881.00	1,408.00





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PREMIUMS

2015 Delta Dental Premium

■ \$118.17/employee/month composite rate

2016 Delta Dental Premium¹⁰

■ \$118.17/employee/month composite rate

¹⁰ Assumed annual average dental claim is \$1,173 per participant



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DATA SUMMARY

Medical Plan Participation June 30, 2015

		Retiree			
Plan	Active	Pre-65	Post-65	Total	
Anthem Traditional	2%	-	-	-	
Blue Shield	6%	20%	21%	20%	
Blue Shield NetValue	4%	3%	1%	2%	
Kaiser	78%	60%	43%	49%	
UnitedHealthcare	-	-	-	-	
PERS Choice	8%	11%	22%	19%	
PERS Select	-	-	-	-	
PERSCare	2%	6%	12%	10%	
PORAC	-	-	1%	-	
Total	100%	100%	100%	100%	





Active Medical Plan Coverage

Plan	Region	Single	2-Party	Family	Waived	Total
Anthem Traditional	Bay Area	1	1	3	-	5
Blue Shield	Bay Area	2	6	4	-	12
Blue Shield NV	Bay Area	2	3	3	-	8
Kaiser	Bay Area	47	56	62	-	165
UnitedHealthcare	Bay Area	-	-	1	-	1
PERS Choice	Bay Area	1	5	10	-	16
PERS Select	Bay Area	-	-	1	-	1
PERSCare	Bay Area	4	1	-	-	5
Waived		-	-	-	23	23
Total		57	72	84	23	236



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DATA SUMMARY

Retiree Medical Plan Coverage Under Age 65

Plan	Region	Single	2-Party	Family	Waived	Total
Blue Shield	Bay Area	4	4	3	_	11
	Northern CA	_	1	-	_	1
	Southern CA	1	-	-	-	1
Blue Shield NV	Bay Area	-	2	-	-	2
	Southern CA	-	-	1	-	1
Kaiser	Bay Area	17	20	3	_	40
	Sacramento	-	1	-	-	1
	Southern CA	1	-	-	-	1
PERS Choice	Bay Area	1	4	1	_	6
	Out of State	-	1	1	-	2
PERSCare	Bay Area	-	1	-	-	1
	Northern CA	1	-	1	-	2
	Out of State	-	1	-	-	1
Waived		-	-	-	5	5
Total		25	35	10	5	75





Retiree Medical Plan Coverage Over Age 65

Plan	Region	Single	2-Party	Family	Waived	Total
Blue Shield	Bay Area	12	15	ı	_	27
	Northern CA	1	2	ı	_	3
	Southern CA	1	_	ı	_	1
Blue Shield NV	Bay Area	_	2	-	_	2
Kaiser	Bay Area	26	32	1	_	59
	Out of State	_	1	1	_	1
	Sacramento	1	2	1	_	4
	Southern CA	_	2	ı	_	2
PERS Choice	Bay Area	5	9	ı	_	14
	Northern CA	2	2	ı	_	4
	Sacramento	_	1	-	_	1
	Southern CA	1	_	-	_	1
	Out of State	4	9	-	_	13
PERSCare	Bay Area	4	6	ı	_	10
	Northern CA	_	1	ı	_	1
	Out of State	2	4	1	_	7
PORAC		1	_	-	_	1
Waived		_	_	-	13	13
Total		60	88	3	13	164



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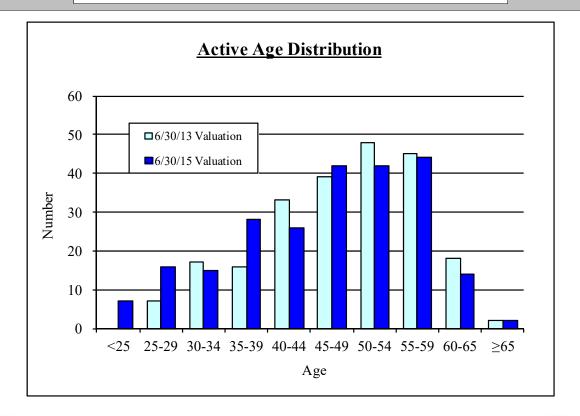
DATA SUMMARY

Actives by Age and Service

	District Service							
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total
< 25	3	4	-	-	-	-	-	7
25-29	4	10	2	-	-	-	-	16
30-34	3	2	8	2	-	-	-	15
35-39	4	9	8	6	1	-	-	28
40-44	-	3	9	9	3	2	-	26
45-49	2	4	7	13	6	8	2	42
50-54	1	2	4	10	12	6	7	42
55-59	-	2	6	10	10	8	8	44
60-64	-	-	2	7	3	1	1	14
≥ 65	-	-	1	-	-	-	1	2
Total	17	36	47	57	35	25	19	236







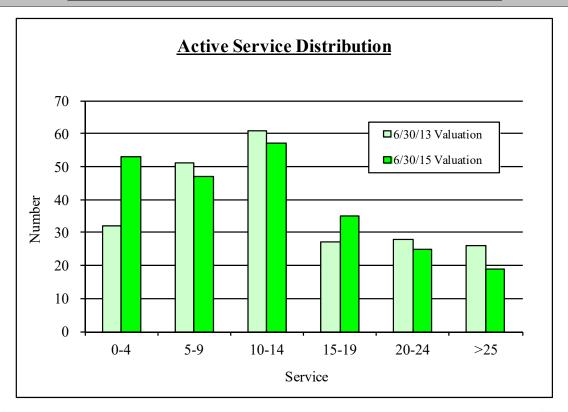


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DATA SUMMARY



(B/4)



Retiree Medical Coverage by Age Group

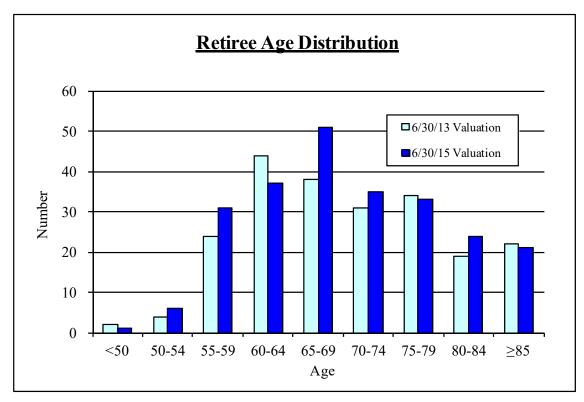
Age	Single	2-Party	Family	Waived	Total
Under 50	-	1	-	-	1
50-54	1	3	2	-	6
55-59	12	14	3	2	31
60-64	12	17	5	3	37
65-69	22	27	ı	2	51
70-74	11	20	2	2	35
75-79	9	21	1	2	33
80-84	10	12	-	2	24
85 & Over	8	8	-	5	21
Total < 65	25	35	10	5	75
Total ≥ 65	60	88	3	13	164
Total	85	123	13	18	239
Average Age	71.6	70.4	63.1	75.9	70.8





DATA SUMMARY

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ACTUARIAL ASSUMPTIONS

	June 30, 2013 Valuation	June 30, 2015 Valuation
■ Funding Policy	■ Full pre-funding in CalPERS	■ Same
	OPEB Trust (CERBT)	
■ Payroll Increases	■ Aggregate increase: 3.25%	■ Same
	■ Merit increase: CalPERS	
	1997-2011 Experience Study	
■ General Inflation	■ 3.00%	■ Same
■ Dental Trend	■ 4.00% per year	■ Same
■ Medical Plan at Retirement	■ Medical plan at 65 consistent with current elections for retirees over 65	■ Same
■ Dental Cap Increase	■ None	■ Same





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ACTUARIAL ASSUMPTIONS

	June 30, 2013 Valuation	June 30, 2015 Valuation
■ Retirement	 ■ CalPERS 1997-2011 Experience Study ■ Hire Age: 34.8 ■ Miscellaneous: 2.7% @ 55 ■ Expected Ret Age: 57.9 	■ CalPERS 1997-2011 Experience Study Classic Members Benefit Misc. 2.7%@55 HA 34.0 ERA 57.8 New Members Benefit Misc. 2%@62 HA 30.9
 Medical Participation at Retirement Waived Retiree Re-election 	 ■ Currently covered: 100% ■ Currently waived: 50% ■ 10% are assumed to elect at age 65 	ERA 60.6 ■ Same ■ Same





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ACTUARIAL ASSUMPTIONS

	June 30, 2013 Valuation	June 30, 2015 Valuation
■ Marital Status	 Currently covered: current marital status Not currently covered: 80% married 	■ Same
■ Medicare Eligible Rate	■ 100% ■ Everyone eligible for	■ Same
	Medicare will elect Part B coverage	
■ Spouse Age	■ Actives: Males 3 years older than females	■ Same
	Retirees: Males 3 years older than females if spouse birth date not provided	
■ Dependents	Actives: 20% have family coverage < 65	■ Same
	■ Dental coverage: 2 children	





ACTUARIAL ASSUMPTIONS

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	June 30, 2015 Valuation								
■ Sample HMO	■ Sample monthly claims costs								
Medical Claims			Bay	Area Reg	ion - Non-	-Medicare	Eligible		
Costs: 2016			BS A	ccess+	BS Ne	<u>etValue</u>	<u>Ka</u>	<u>iser</u>	
		ge	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	
		25	\$298	\$587	\$328	\$645	\$246	\$483	
	3	35	391	718	430	789	322	591	
	4	15	623	753	685	828	513	620	
	5	55	1,040	1,052	1,143	1,156	856	866	
	6	50	1,328	1,242	1,460	1,366	1,093	1,023	
	6	55	1,678	1,510	1,844	1,661	1,381	1,244	
■ Sample PPO	■ Sample	mor	nthly cl	laims co	sts				
Medical Claims			Bay.	Area Reg	ion - Non-	-Medicare	e Eligible		
Costs: 2016			<u>PERS</u>	Choice	<u>PERS</u>	Select	PER:	SCare	
	<u>A</u>	ge	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	
	2	25	\$244	\$401	\$216	\$354	\$284	\$466	
	3	35	363	557	320	492	421	647	
	4	15	576	631	508	557	668	732	
	5	55	851	823	752	727	988	955	
	6	60	1,023	946	903	835	1,187	1,097	
	6	55	1,270	1,142	1,121	1,008	1,474	1,325	





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ACTUARIAL METHODS

	June 30, 2013 Valuation	June 30, 2015 Valuation
■ Cost Method	■ Entry Age Normal	■ Same
Amortization Method	■ Level percentage of payroll	■ Same
■ Actuarial Value of Assets	 Investment gains/losses spread over a 5-year rolling period Not less than 80% nor more than 120% of market value 	■ Same
■ Unfunded Liability Amortization	■ Unfunded liability amortized over 20-year period commencing 2015/16	■ Unfunded liability amortized over 18-year period commencing 2017/18



